REMARKS

As a preliminary matter, the drawings are objected to for the reasons set forth on pages 2-3. Applicants submit herewith a formal replacement drawing and an annotated drawing of Fig. 4 to replace the hand marked-up version of Fig. 4 that is presently on file.

Also, as a preliminary matter, the specification and claims 4[1] and 10-14 are objected to for the reasons set forth on pages 3 of the Office Action. In response, Applicants amend the specification and claims 10-14, as set forth herein, as Applicants believe that these amendments would obviate the Examiner's objections to the specification and claims.

Claims 1-39 are all the claims pending in the application. Claims 1 and 4 are rejected under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite. The Examiner no longer rejects claims 1-39 over the previously applied reference, Chang, however, claims 1-39 are now rejected under 35 U.S.C. § 103(a), as allegedly being unpatentable over Sen et al. (U.S. Patent No. 6,765,909) in view of Gage et al. (U.S. Patent No. 6,515,972).

§ 112, second paragraph, Rejections - Claims 1 and 4

The Examiner rejects claims 1 and 4 under 35 U.S.C. § 112, second paragraph, for the reasons set forth on page 4 of the Office Action.

Applicants amend claims 1 and 4, as indicated herein, for clarification purposes, and submit that the claimed "application data service" and "application data" are different elements, and that there IS sufficient antecedent basis for both "application data service" and "application

data". At least based on the foregoing, Applicants submit that the Examiner's rejections of claims 1 and 4 under 35 U.S.C. § 112, second paragraph, are obviated.

§ 103(a) Rejections (Sen/Gage) - Claims 1-39

The Examiner rejects claims 1-39 over Sen and Gage for the reasons set forth on pages 5-9 of the present Office Action.

With respect to independent claim 1, Applicants submit that neither Sen nor Gage, either alone or in combination, teaches or suggests at least, "adding header information by referring to the established catalog," as recited in independent claim 1. Specifically, the Examiner alleges that Sen teaches the above-quoted limitation, however, Sen (*see. Col. 3, lines 24-31)* only discusses detecting and identifying a connection by reading a connection number field of a compressed TCP/IP header in a packet, and applying appropriate quality of service levels as determined from a user database and a list of available quality of service levels. Nowhere, however, does Sen teach or suggest adding the header information by referring to an established catalogue. Therefore, at least based on the foregoing, Applicants submit that independent claim 1 is patentably distinguishable over the applied references, either alone or in combination. Applicants submit that independent claims 4, 39, and amended claim 5, are patentable at least for reasons similar to those set forth above with respect to claim 1.

[1] Applicants are not quite sure why claim 4 is objected to as the Examiner does not explain his objection to claim 4 in the Office Action.

Applicants submit that dependent claims 2, 3, and 6-38 are patentable at least by virtue of their respective dependencies from independent claims 1, 4, and 5.

Further, with respect to claim 2, even if, *arguendo*, the Examiner's assertions, in the second to last paragraph on page 6 of the Office Action, are accurate, nowhere does Sen teach or suggest that header information of each layer is added to the application data.

Further, with respect to dependent claims 6-9, the Examiner alleges that the features of these claims are satisfied based on col. 3, lines 33-67 of Gage, and offers supporting arguments at the top of page 7 of the Office Action. In response, however, Applicants submit that nowhere does the Examiner mention nor does Gage teach or suggest at least adding error detecting codes in a physical layer. The Examiner mentions and Gage only generally describes a radial link protocol providing error detection, but does not discuss the particular features of claims 6-9.

With respect to dependent claims 10-15, the Examiner alleges that the features of these claims are satisfied based on the arguments set forth in the second full paragraph on page 7 of the present Office Action. In response, Applicants submit that nowhere does Sen, Gage, or the combination thereof, teach or suggest at least, "wherein the catalog is established during a previous transmission/reception of application data," as recited in claims 10-15. That is, Sen, for example, only describes the different mechanisms that are used to control the radial resources to achieve corresponding quality of service requirements. However, nowhere is it even mentioned that a catalog of information related to an application data service is established during a previous transmission reception of application data. Therefore, at least based on the foregoing,

Applicants submit that dependent claims 10-15 are patentably distinguishable over the applied references, either alone or in combination.

Applicants submit that dependent claims 16-19 are patentable at least for reasons similar to those set forth above with respect to claim 10-15.

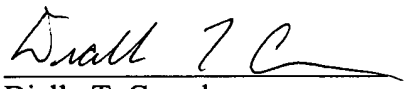
With respect to dependent claims 20-24, the Examiner simply repeats what is disclosed at col. 1, lines 49-59 of Gage, however, the particular features of claims 20-24 are NOT mentioned therein. That is, nowhere does Gage even mention that the information related to the quality of service is a delay time value of the transmitted data or an error generation probability value of the transmitted data. Therefore, at least based on the foregoing, Applicants submit that the present invention, as recited in claims 20-24, are patentably distinguishable over the applied references.

Further, with respect to claims 33-35, neither of the applied references teaches or suggests and the Examiner does not even mention at least, "wherein the predetermined standard of judgment is decided by referring to cyclic redundancy code (CRC) information calculated in a physical layer, header fields of each layer, and an initially established data service catalog," as recited in claims 33-35. Therefore, at least based on the foregoing, Applicants submit that claims 33-35 are patentably distinguishable over the applied references.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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Date: April 27, 2005

AMENDMENTS TO THE DRAWINGS

Submitted herewith please find 2 sheets of drawings (annotated Fig. 4 and replacement sheet of Fig. 4) in compliance with 37 C.F.R. § 1.121. The Examiner is respectfully requested to acknowledge receipt of these drawings.

Attachment: Replacement Sheet (Fig. 4)
Annotated Sheet (Fig. 4)

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PATENT & TRADEMARK OFFICE

Inventors' Names: Jeong-hoon Park, et al.
Title: APPARATUS FOR TRANSMITTING AND RECEIVING WIRELESS DATA AND METHOD THEREOF
Appln. No.: 09/783,126 Filed: 02/15/2001
Sughrue Ref. No.: Q62554
Annotated Sheet for Figure 4

FIG. 4